

MINUTES
COUNCIL
AMERICAN CHEMICAL SOCIETY
March 16, 2016
San Diego, California

The Council of the American Chemical Society met in San Diego, California, on March 16, 2016, beginning at 8:00 a.m. Donna J. Nelson, President of the Society and of the Council, presided. The following Councilors, Alternate Councilors, and accredited representatives were present:

Ex-Officio: John E. Adams, George M. Bodner, Bruce E. Bursten, Allison A. Campbell, William F. Carroll, Jr., Charles P. Casey, Pat N. Confalone, Thomas M. Connelly, Jr., Joseph S. Francisco, Ned D. Heindel, Rigoberto Hernandez, Catherine T. Hunt, Nancy B. Jackson, Paul W. Jagodzinski, Thomas H. Lane, Lee H. Latimer, Flint H. Lewis, Ingrid Montes, E. Ann Nalley, Donna J. Nelson, Attila E. Pavlath, Laura E. Pence, Dorothy J. Phillips, Elsa Reichmanis, Barbara A. Sawrey, Diane Grob Schmidt, Kathleen M. Schulz, Bassam Z. Shakhashiri, Edell Wasserman, Marinda Li Wu.

Bylaw: Lynne P. Greenblatt.

Divisions: *Agricultural & Food Chemistry*, Michael Appell, John W. Finley, Michael J. Morello, Agnes M. Rimando. *Agrochemicals*, Rodney M. Bennett, Jeanette M. Van Emon. *Analytical Chemistry*, Kimberly Agnew-Heard, Karl S. Booksh, Michelle V. Buchanan, Roland F. Hirsch. *Biochemical Technology*, Arindam Bose, Cynthia H. Collins*, Sadettin Ozturk, Sharon P. Shoemaker. *Biological Chemistry*, Erin E. Carlson, Christine S. Chow, Thomas J. Magliery. *Business Development & Management*, Janet L. Bryant. *Carbohydrate Chemistry*, Anthony S. Serianni. *Catalysis Science and Technology*, Charles Peden. *Cellulose and Renewable Materials*, Kevin J. Edgar, Lucian A. Lucia, Scott H. Renneckar. *Chemical Education*, Renée S. Cole, Resa M. Kelly, Sally B. Mitchell, Ellen J. Yeziarski. *Chemical Health & Safety*, Robert H. Hill, Jr., Frankie K. Wood-Black. *Chemical Information*, Svetlana Korolev, Bonnie Lawlor, Andrea B. Twiss-Brooks. *Chemical Toxicology*, Penny Beuning. *Chemistry & The Law*, James C. Carver, Alan M. Ehrlich. *Colloid & Surface Chemistry*, Jennifer A. Hollingsworth, John N. Russell, Jr.*, Maria M. Santore. *Computers in Chemistry*, Luke E.K. Achenie*, Christine M. Aikens, Emilio X. Esposito. *Energy & Fuels*, Joe D. Allison, Phillip F. Britt*, Elise B. Fox, Lisa Houston. *Environmental Chemistry*, V. Dean Adams, Alan W. Elzerman, Jurgen H. Exner, Martha J.M. Wells. *Fluorine Chemistry*, David A. Dixon. *Geochemistry*, James D. Kubicki. *History of Chemistry*, Roger A. Egolf, Mary Virginia Orna. *Industrial & Engineering Chemistry*, Spiro D. Alexandratos, Mary K. Engelman, Leigh R. Martin*, Melanie J. Moser. *Inorganic Chemistry*, Debbie C. Crans, Thomas R. Cundari, Marina A. Petrukhnina, Silvia Ronco. *Medicinal Chemistry*, Jane V. Aldrich, William J. Greenlee, Carrie Haskell-Luevano*, Amy S. Ripka. *Nuclear Chemistry & Technology*, Silvia S. Jurisson, Graham F. Peaslee. *Organic Chemistry*, Huw M.L. Davies, Paul R. Hanson*, Robert E. Maleczka, Jr.*, Cynthia A. Maryanoff. *Physical Chemistry*, Teresa L. Head-Gordon, Kirk A. Peterson, Ellen B. Stechel, Theresa L. Windus. *Polymer Chemistry*, Frank D. Blum, Mary Ann Meador, Robert B. Moore, John Pochan. *Polymeric Materials: Science & Engineering*, Anthony J. Dias, Benny D. Freeman, Michael Jaffe*, Theodore Provder*. *Professional Relations*, R. Daniel Libby. *Rubber*, John M. Long. *Small Chemical Businesses*, Joseph E. Sabol.

Local Sections: *Akron*, James E. Dudley, Daryl L. Stein. *Alabama*, Tracy P. Hamilton. *Ames*, Javier Vela-Becerra. *Auburn*, John D. Gorden**. *Baton Rouge*, Bryan K. Franklin. *Binghamton*, Wayne E. Jones. *Brazosport*, Carolyn Ribes. *California*, G. Bryan Balazs, Mark D. Frishberg, Sheila Kanodia, Stephanie M. Malone, Eileen M. Nottoli, James M. Postma*, Paul F. Vartanian, Elaine S. Yamaguchi. *California Los Padres*,

*Alternate Councilor

**Temporary Substitute Councilor

Albert C. Censullo. *Carolina-Piedmont*, Matthew K. Chan, Daniel Rabinovich. *Central Arizona*, Richard C. Bauer. *Central Arkansas*, Martin D. Perry. *Central Massachusetts*, Meledath Govindan. *Central New Mexico*, Kristin M. Omberg, Donivan R. Porterfield. *Central New York*, Alyssa C. Thomas. *Central North Carolina*, Robert A. Yokley. *Central Ohio Valley*, Gary D. Anderson. *Central Pennsylvania*, Lori S. Van Der Sluys. *Central Texas*, Debra A. Feakes. *Central Utah*, Jennifer B. Nielson. *Central Wisconsin*, C. Marvin Lang. *Chattanooga*, Verrill M. Norwood, III. *Chemical Society of Washington*, Allison Aldridge, Christopher W. Avery, David J. Carrillo*, Regina J. Cody, Monika I. Konaklieva, John M. Malin, Kim M. Morehouse, Jason E. Schaff, Stefanie S. Wittenberg. *Chicago*, Charles E. Cannon, David S. Crumrine, Russell W. Johnson, Michael G. Koehler, Fran K. Kravitz, Margaret S. Levenberg, Milt Levenberg, Inessa Miller, Barbara E. Moriarty, Susan M. Shih. *Cincinnati*, Bruce S. Ault, Kathleen Gibboney, Richard J. Mullins. *Cleveland*, Dwight W. Chasar, Michael J. Kenney*. *Colorado*, Susan MacGregor Batenhorst, Lawrence J. Berliner, Sandra J. Bonetti, Connie Gabel, Ryan M. Richards, Susan M. Schelble. *Columbus*, Edmund T. King, Donald C. Songstad*, Virginia H. Songstad. *Connecticut Valley*, Ronald D. Archer, Kevin R. Kittilstved, Julianne M.D. Smist, Frank J. Torre. *Cornell*, Thomas A. McCarrick. *Corning*, Roger F. Bartholomew. *Dallas-Fort Worth*, Mary Anderson, Jason L. McAfee, Linda D. Schultz, E. Thomas Strom. *Dayton*, Steven Trohalaki. *Decatur-Springfield*, Harry J. Elston. *Delaware*, John Gavenonis, Tiffany N. Hoerter, Martha G. Hollomon, Margaret J. Schooler. *Detroit*, Mark A. Benvenuto, James M. Landis, Jr., Anthony F. Sky. *East Central Illinois*, Amy Nicely. *East Tennessee*, Arlene A. Garrison*, Alan A. Hazari. *East Texas*, Michael Sheets. *Eastern New York*, Mary K. Carroll, Warren D. Hull, Jr. *Eastern North Carolina*, Satinder Ahuja. *Erie*, Betty Jo Chitester. *Florida*, Béla S. Buslig, Carmen V. Gauthier. *Georgia*, Heather L. Abbott-Lyon, Holly L. Davis*, Lissa Dulany, Donald G. Hicks*, Terence E. Say. *Greater Houston*, Simon G. Bott, Amber S. Hinkle, Valerie Lafitte, Thomas B. Malloy*, Mamie W. Moy, David M. Singleton. *Green Mountain*, Willem R. Leenstra. *Hampton Roads*, Lisa S. Webb. *Hawaii*, T. Blake Vance, Jr. *Heart O'Texas*, Darrell G. Watson. *Huron Valley*, Ellene T. Contis, Harriet Lindsay. *Idaho*, Joshua J. Pak. *Illinois Heartland*, Gregory M. Ferrence. *Illinois-Iowa*, Richard G. Rogers. *Indiana*, Christina Bodurow, Beth Lorschbach, Brian M. Mathes, Robert A. Pribush. *Indiana-Kentucky Border*, Jeannie T.B. Collins*. *Inland Northwest*, Jeffrey A. Rahn. *Kalamazoo*, Lydia E.M. Hines. *Kansas City*, Gary E. Clapp*, William G. Gutheil. *Kentucky Lake*, Charles M. Baldwin. *Lake Superior*, Donald K. Harriss. *Lehigh Valley*, Jeanne R. Berk, Lorena Tribe. *Lexington*, Mark Blankenbuehler. *Louisiana*, Alvin F. Bopp. *Louisville*, James F. Tatera. *Maine*, Mitchell R.M. Bruce. *Mark Twain*, Dawood Afzal. *Maryland*, Merle I. Eiss, Dana Ferraris, Jan E. Kolakowski, Paul J. Smith, Stephanie Watson. *Memphis*, Laura M. Wolf. *Michigan State University*, Susanne M. Lewis*. *Middle Georgia*, Robert J. Hargrove. *Mid-Hudson*, George W. Ruger. *Midland*, Tina M. Leaym, Dale J. LeCaptain. *Milwaukee*, Kevin W. Glaeske, Joseph J. Piatt. *Minnesota*, Marilyn Duerst, Lynn G. Hartshorn, Sarah M. Mullins, Danae R. Quirk Dorr, Wayne C. Wolsey. *Mississippi*, David H. Magers**. *Mobile*, W. Matthew Reichert. *Mojave Desert*, Peter Zarras. *Mo-Kan-Ok, The Tri-State*, Khamis S. Siam. *Montana*, Janice E. Alexander. *Nashville*, Judith M. Iriarte-Gross, Ruth A. Woodall. *Nebraska*, James M. Takacs. *New Haven*, Gerald J. Putterman, Kap-Sun Yeung. *New York*, Donald D. Clarke*, Ronald P. D'Amelia, Barbara R. Hillery, Neil D. Jespersen, Hiroko I. Karan, Joan A. Laredo-Liddell*, Patricia A. Redden, Frank Romano, Justyna Widera. *North Carolina*, James L. Chao, Alvin L. Crumbliss, Alexandra B. Ormond*, Melissa A. Pasquinelli, Laura S. Sremaniak. *North Jersey*, Amy M. Balija, Jeannette E. Brown, Alan B. Cooper, Jacqueline A. Erickson, Stan S. Hall, Elizabeth M. Howson, Diane Krone, Cecilia E. Marzabadi*, Les W. McQuire, William H. Suits. *Northeast Georgia*, Susan D. Richardson. *Northeast Tennessee*, John Engelman, II. *Northeast Wisconsin*, Martin D. Rudd. *Northeastern*, Michaeline F. Chen, Mukund S. Chorghade*, Catherine E. Costello, Michael P. Filosa, Patrick M. Gordon*, Morton Z. Hoffman, Jerry P. Jasinski*, Katherine L. Lee, Doris I. Lewis, Patricia A. Mabrouk, S. B. Rajur*, Mary Jane Shultz, Michael Singer, Sonja Strah-Pleyne*, Ruth E. Tanner. *Northeastern Ohio*, Sarah S. Preston. *Northern Oklahoma*, Keith J. Stanger**. *Northern West Virginia*, Edwin L. Kugler*. *Northwest Central Ohio*, Hafed A. Bascal*. *Northwest Louisiana*, Brian A. Salvatore. *Oklahoma*, Allen W. Apblett. *Ole Miss*, Jason E. Ritchie. *Omaha*, Richard B. Lomneth. *Orange County*, Robert S. Cohen, Rabin D. Lai, Sanda P. Sun. *Oregon*, Richard L. Nafshun. *Orlando*, Darlene K. Slattery. *Ouachita Valley*, Danny E. Hubbard. *Ozark*, Eric Bosch. *Panhandle Plains*, Mary E. Graff. *Penn-Ohio Border*, Doris L. Zimmerman.

Pensacola, Allan M. Ford. **Permian Basin**, Kathryn Louie. **Philadelphia**, Anthony W. Addison, Georgia Arbuckle-Keil, Deborah H. Cook, Ella L. Davis, Anne S. DeMasi, Rick Ewing, Mark A. Forman, Kathryn A. Lysko, Margaret A. Matthews*, James K. Murray, Jr., John Tierney. **Pittsburgh**, Richard S. Danchik, Joseph D. Jolson*, Robert Mathers, Vincent M. Mautino. **Portland**, Angela Hoffman, Marcie J. Merritt. **Princeton**, Allen N. Jones, Louise M. Lawter. **Puerto Rico**, Néstor M. Carballeira, Jorge L. Colón*, Agnes Costa Diaz, Orlando J. Morales-Martinez*. **Puget Sound**, Gary D. Christian, Gregory L. Milligan, Despina Strong, Mark Wicholas. **Purdue**, Adam C. Myers**. **Red River Valley**, Harmon B. Abrahamson. **Rhode Island**, Peter J. Bonk. **Richland**, Richard A. Hermens. **Rio Grande Valley**, Keith Pannell. **Rochester**, D. Richard Cobb, Todd E. Pagano. **Rock River**, Dennis N. Kevill. **Sabine-Neches**, John A. Whittle. **Sacramento**, Mariela de la Paz Carpio-Obeso*, Janice Frias*. **St. Louis**, Lisa M. Balbes, Lawrence Barton, Donna G. Friedman, Theodore C. Gast. **Salt Lake**, Peter J. Stang. **San Antonio**, Larry C. Grona. **San Diego**, Thomas R. Beattie, Hui Cai, Desiree Grubisha, John G. Palmer, J. Kenneth Poggenburg, Jr., David M. Wallace. **San Geronio**, Eileen M. DiMauro, J. Ernest Simpson. **San Joaquin Valley**, Melissa L. Golden. **Santa Clara Valley**, Linda S. Brunauer, Matthew J. Greaney*, George J. Lechner, Sally B. Peters, Peter F. Rusch, Herbert B. Silber, Ean Warren. **Savannah River**, Christopher J. Bannochie. **Sierra Nevada**, Laina M. Geary. **Sioux Valley**, Jetty L. Duffy-Matzner. **Snake River**, Don L. Warner. **South Carolina**, William H. Breazeale, Jr., Scott R. Goode. **South Florida**, Milagros Delgado, George H. Fisher, Zaida C. Morales-Martinez. **South Jersey**, Jennifer L. McCulley. **South Plains**, Bill Poirier. **South Texas**, Ludivina Avila. **Southeastern Pennsylvania**, Gregory P. Foy. **Southern Arizona**, Steven L. Brown. **Southern California**, Brian B. Brady, Robert M. de Groot, Veronica I. Jaramillo*, Virgil J. Lee, Eleanor D. Siebert, Barbara P. Sitzman. **Southern Illinois**, Yin Yee Choo*. **Southern Indiana**, Kenneth G. Caulton. **Southern Nevada**, Amber Howerton*. **Southwest Georgia**, Donna Gosnell**. **Susquehanna Valley**, Dee Ann Casteel. **Tampa Bay**, Fred L. Metz*, Sidney S. White, Jr.*. **Texas A&M**, David E. Bergbreiter. **Toledo**, Andrew D. Jorgensen. **Trenton**, Benny C. Chan, Matthew C. Crowe. **University of Missouri**, Justin R. Walensky. **Upper Ohio Valley**, Kevin Pate. **Upper Peninsula**, David M. Myton. **Virginia**, Joseph M. Crockett*, Ann M. Sullivan, Linette M. Watkins. **Virginia Blue Ridge**, W. Gary Hollis, Jr. **Wabash Valley**, Edward A. Mottel. **Wakarusa Valley**, Joseph A. Heppert. **Washington Idaho Border**, Richard V. Williams. **Western Carolinas**, Lucy P. Eubanks, George L. Heard. **Western Connecticut**, Linda Farber, L. Kraig Steffen. **Western Maryland**, Peggy S. Biser. **Western Michigan**, Mark A. Thomson. **Western New York**, Peter M. Schaber. **Wichita**, D. Paul Rillema. **Wichita Falls-Duncan**, Keith R. Vitense. **Wisconsin**, Martha L. Casey, Ieva L. Reich. **Wyoming**, Jane V. Thomas.

Nonvoting Councilors: Kara M. Allen, Elizabeth P. Beckham, Brian A. Bernstein, Susan B. Butts, Mark C. Cesa, Amber F. Charlebois, Brian D. Crawford, Denise L. Creech, Peter K. Dorhout, Thomas R. Gilbert, Alicia E. Harris, Madeleine Jacobs, John C. Katz, Mary M. Kirchhoff, Steven R. Meyers, Bradley Moore, Christi Pearson, Barbara F. Polansky, Greg Robinson, Max B. Saffell, David T. Smorodin, Simanco R. Staley, Frank E. Walworth, Linda Wang, Marleen G. Weidner, Thomas J. Wenzel.

The preceding list of attendees at the Council meeting includes the following: 30 Ex- Officio Councilors; 1 Bylaw Councilor; 86 Division Councilors (76 elected, 10 alternate); 334 Local Section Councilors (294 elected, 35 alternate, 5 temporary); and 26 Nonvoting Councilors (staff and others). Approximately 55 observers were in attendance.

Resolutions

The Council ADOPTED the following resolutions as presented by Council Policy Committee (CPC) Vice-Chair Alan M. Ehrlich:

1. BE IT RESOLVED That the Council of the American Chemical Society commemorate the passing of the following Councilors, remembering them with respect and affection, and extending sincerest condolences to their families in their bereavement:

- Dr. John T. Yates, Professor of Chemistry, University of Virginia, and Councilor for the Physical Chemistry Division from 2005 to 2007.
- Professor Paul Barkan, Emeritus Professor of Chemistry, Westchester Community College, and Councilor for the New York Section from 1997 to 1999.
- Dr. Theodore M. Brown, Emeritus Professor of Chemistry, Arizona State University, and Councilor for the Central Arizona Section from 1980 to 2009.

Councilors observed a moment of silence following the presentation of the preceding resolution.

Approval of Minutes

2. VOTED to approve, as distributed, the minutes of the meeting of August 19, 2015.

Report of Interim Action, Council Policy Committee

3. VOTED to receive the report of an interim action from the Council Policy Committee (CPC).

Nominations and Elections

D. Richard Cobb, chair, Committee on Nominations and Elections (N&E), in accordance with the provisions of Bylaw III, Sec. 3, b, (1), (b), presented the following nominees for selection as candidates for President-Elect 2017: Peter K. Dorhout, Thomas R. Gilbert, C. Bradley Moore, and Gregory H. Robinson.

4. After each nominee spoke to Council, the Council selected by electronic ballot Peter K. Dorhout and Thomas R. Gilbert as candidates for President-Elect 2017.

Mr. Cobb introduced the candidates for the Board of Directors, chosen by voting Councilors in District II and District IV for the election to be conducted this fall for the term 2017-2019: District II, George M. Bodner and Christina C. Bodurow; and District IV, Rigoberto Hernandez and Larry K. Krannich.

Mr. Cobb then announced the following candidates for Director-at-Large on the Board of Directors: Joseph A. Heppert, Kristin Omberg, Dorothy J. Phillips, and Kathleen M. Schulz. The two successful candidates will fill 2017-2019 terms.

Reports of Society Officers

President Donna Nelson announced that community building within ACS is a major theme of her three-year term, and her report focused on panel discussions and poster sessions in San Diego designed to build community within our Society. Three presidential symposia in San Diego will address ACS member concerns about employment in the chemical sciences, demographic data and their applications to diversity in chemistry, and changes in the use of organic chemistry as a prerequisite. In a break with tradition, ACS members were invited to submit papers to presidential poster sessions corresponding to the three topics and will interact with authors and other attendees during poster sessions Sunday evening and Monday during Sci-Mix.

Additional Presidential programming that addresses the concerns of ACS members is being planned for the ACS National Meeting in Philadelphia. The topics selected are: "Safety and Ethics in Our Chemical Community: Controlling science, by and for all scientists;" "Standing up for science: Difficult discussions about jobs;" and "Fracking: Economics vs environment."

President-Elect Allison A. Campbell stated she is deeply honored to stand before Council as President-Elect. The first quarter of 2016 has been a busy and educational time, and she was able to participate in Board and Committee activities; meet monthly with ACS Staff, participate in the ACS Leadership Institute, and talk directly with members.

Though just getting started, she reported that the topical areas, special projects, and targeted Presidential symposia are taking shape. The three themes of Science Advocacy; Science Literacy; and Chemistry as a Global Enterprise will guide her term and corresponding initiatives. Her Presidential symposia will be heavily scientifically focused and highlight the accomplishments of members while demonstrating how we are “Improving people’s lives through the transforming power of chemistry.” Topics under consideration include: “Energy for a Low Carbon Future: Grand Challenges for Chemistry” and “The Chemistry of our Earth: Mitigating Environmental Impacts.” These symposia will bring together both early career and nationally renowned scientists to highlight the new science that is being done to address these complex issues.

Immediate Past President Diane Grob Schmidt reported that it continues to be an honor to serve her professional society as Immediate Past President; and she has enjoyed every moment of her time in the Presidential Succession.

Continuing on her theme of addressing Grand Challenges, she sponsored a symposium on energy, programmed through the Division of Energy and Fuels at this meeting, titled, “Research Opportunities for Future Energy Technologies.” The keynote address was given by Dr. Lynn Orr, U.S. Under Secretary for Science and Energy, Department of Energy. He was followed by speakers from industry, academia, and national laboratories, who discussed groundbreaking technology in energy storage, new materials, and additive manufacturing..

At the Philadelphia fall national meeting, Dr. Schmidt will assist with organizing two symposia: one honoring the legacy of former ACS President and Board Chair Ernest L. Eliel, and the other focusing on another inspired Grand Challenge: the nexus of nanoscience, neuroscience, and big data, with emphasis on chemistry and the contributions of chemists. She will also be working with Drs. Paul Weiss and Anne Andrews, and the Kavli Foundation to organize a symposium on the BRAIN Initiative, a challenge championed by President Obama. The symposium will bring together researchers focused on the elements required to explore the human brain in real time.

She concluded her report by expressing gratitude for the hospitality extended by the many local sections she has visited, and for the support received from so many Divisions through co-sponsorships of various symposia.

Board Chair Pat N. Confalone briefed the Council on the issues discussed and actions taken at the ACS Board of Directors Meeting, conducted on Friday and Saturday, March 11-12. The Board is committed to continuously improving its effectiveness in the service of ACS, both as individual board members, and as a collective body. Board discussions included a careful consideration of Board development activities, including topics for a facilitated retreat in June; how to strengthen the process used for the discussion of key strategic issues; as well how to streamline and simplify various activities of the Board.

The Board received input and discussed reports from several of its committees; was briefed on the current and planned activities of the Presidential Succession; and received a report from Executive Director and CEO Thomas M. Connelly, Jr. on the state of the ACS, membership activities, and new programs.

On the recommendation of the Committee on Grants and Awards (G&A), the Board voted to approve an endowment to support the E. Bright Wilson Award in Spectroscopy; and to approve language to be included in the guiding documents for the National Awards and Fellows Program to allow for the rescission of national awards and ACS Fellows designations where reasonable grounds exist.

The Board received an extensive briefing and approved several recommendations from its Committee on Executive Compensation.

On the recommendation of the Joint Board-Council Committee on Publications (PUBS), the Board voted to approve reappointments of two Editors-in-Chief for ACS journals.

Lastly, Dr. Confalone directed Council's attention to the small wallet cards, "2016 ACS Strategic Plan and Beyond," which were placed on the Councilors' chairs. This handout includes the vision and mission of the Society and details ACS's core values and goals.

Executive Director & CEO Thomas M. Connelly, Jr. began by stating he has just completed his first year as Executive Director and CEO, and thanked the members of Council, and the entire membership, for the warm welcome that he has received.

Dr. Connelly then reported on several notable highlights from 2015. CAS enjoyed its strongest revenue growth in several years, up 3.3 % on a constant-currency basis. New products including CHEMCATS®, NCI™ Global and PatentPak™ contributed significantly to growth revenue. CAS also launched its new branding in January.

Last year was also an important year for ACS Publications' participation in Open Access publishing, with the successful launch of *ACS Central Science*, ACS' first completely open access journal. *ACS Omega*, an open-access mega-journal will begin publication this summer. C&EN unveiled a vibrant new look as part of an updated approach to our print and on-line presence.

Dr. Connelly reported that membership efforts in 2015 finished strongly, but overall membership dropped to slightly less than 157,000. Our international membership was a bright spot, growing by more than a thousand members, now representing 17 % of the total.

The American Association of Chemistry Teachers (AACT) has grown its membership to more than 3,300 since launching in August 2014. Two Dow-AACT teacher summits will be held this summer, and the Biennial Conference on Chemical Education will include an AACT track during this year's conference.

In 2015, ACS received new gifts and pledges totaling \$4.6 million, exceeding the annual fundraising goal of \$3.25 million. Significant contributions included Teva's \$900,000 pledge to the Teva Scholars Program, and Procter & Gamble's substantial pledge to ACS Scholars. Genentech, Gilead, Merck, Pfizer, and five generous ACS members each committed more than \$100,000 to endow named scholarships.

The Office of Public Affairs staff, joined by governance leaders, had considerable success in 2015 in advancing ACS's Legislative Priorities on Capitol Hill. Congress passed important legislation relating to science education and sustainable chemistry, made the R&D tax credit permanent, and created a Congressional Chemistry Caucus.

Dr. Connelly reminded Council that all of the activities mentioned in this report are made possible by continuing strong financial performance. The Society generated a positive net contribution again in 2015. Unrestricted reserves also increased, protecting the Society against future economic uncertainty.

He concluded by encouraging Councilors to visit www.acs.org/acshighlights2015 for additional highlights of ACS Achievements.

ReportsofElectedCommittees

CouncilPolicyCommittee(CPC)

Alan M. Ehrlich, committee vice-chair, reported that CPC remains quite active between meetings through its subcommittees and task forces, and informed Council about changes in CPC's membership since the Boston meeting.

The Subcommittee on Long-Range Planning (LRP) continues to manage the orientation program for new Councilors through its New Councilor Webinar, the New Councilor Orientation, the mentoring program, and provision of significant amounts of electronic and written information to new Councilors. LRP continues to focus on improving training opportunities for new and potential ACS leaders. Additional Councilors as mentors continue to be sought.

LRP was asked to review the way Local Sections and Divisions are currently represented on Council – more specifically, to consider the overall size of the Council and the perception that Council continues to increase in size. LRP fulfilled its charge and presented recommendations for CPC's consideration. The report concluded that important issues and questions still remain, such as the role of international members, whether there should be a cap on the number of Councilors per Local Section and Division, and what will make Council more effective in the governance of the Society. CPC requested that LRP seek representatives from the committees on Divisional Activities (DAC), on International Activities (IAC), and on Local Section Activities (LSAC) and review these issues.

Dr. Ehrlich announced that CPC has approved scheduling of a Special Discussion Item for this meeting at the request of ACS President Donna Nelson – “Gathering Input: ACS Presidential Task Force on the U.S. Employment of Chemists.” Additionally, CPC concurred in the proposed raise in Member dues, and in the proposed revisions to the “Academic Professional Guidelines” from the Committee on Economic and Professional Affairs (CEPA).

CPC is interested in assessing Councilors' needs for assistive technologies at Council. A brief survey on CPC's behalf was then conducted at Council by Mr. Cobb.

CommitteeonCommittees(ConC)

Wayne Jones, committee chair, reported that ConC conducted its annual New Chairs Training Session in January, 2016, as part of the ACS Leadership Institute; ConC is developing its recommendations for 2017 committee chairs, members, associates, and consultant appointments for consideration by the President-Elect and Chair of the Board. The committee also participated in an orientation session that was held this past Saturday for new Councilors; new Councilors were then asked to stand and be recognized.

ConC will be conducting a voluntary and confidential diversity survey of committee chairs, associates, members, and consultants from Council-related committees. The committee will use the data to learn about the makeup of committee volunteers and to guide future diversity efforts. ConC is also making available a presentation entitled “Diversifying ACS Committees” to continue a dialog with local sections and divisions about diversity within committees. Councilors can download a copy to share with their sections or divisions at www.acs.org/conc, click on “Committee Information.”

Councilors were reminded to complete their online preference forms for 2017 during the period March 28 – June 10, 2016, at www.yellowbook.acs.org.

NominationsandElections(N&E)

D. Richard Cobb, committee chair, reported the results of the morning's elections for President-Elect 2017 (see item 4, above). All candidates, including the two elected by Council and any other petition candidates certified by the July 15 deadline, will be placed on the ballot this fall.

N&E has reviewed the distribution of members within the six electoral districts to assure that the districts have equitable representation; that is, the year-end member count of each electoral district must be within 10% of the average number of members residing in each district. The December 31, 2015 year-end report was in compliance and no changes are required in the ACS election district boundaries.

N&E continues to consider improvements to the election process to more effectively serve nominees, candidates, and the Society as a whole. The committee has established a Vote 20/20 Task Force, charged with examining all aspects of nominations and elections for ACS national offices, and designing a viable process to be in place by the year 2020. The ultimate goal is an effective and equitable process for calling forth all those willing to stand for office and serve the Society. Representatives from N&E and other ACS committees have been invited to serve. The committee welcomes ideas from all members as to how nominations and elections should be handled, and comments can be sent to vote2020@acs.org.

The committee developed slates of potential candidates for CPC and ConC for the 2017-2019 term. The names of the candidates will appear in the Philadelphia fall Council agenda.

ReportsofSocietyCommitteesandtheCommitteeonScience

BudgetandFinance(B&F)

Kristen M. Omberg, committee chair, reported that for 2015, ACS generated a net from operations of \$16.6 million, which was \$3.2 million favorable to budget. Total revenues were \$511.7 million, essentially on budget. Expenses ended the year at \$495.1 million, which was \$3.1 million or 0.6% favorable to budget. This variance was attributable to a continued emphasis on expense management across the Society. In addition, the Society's financial position strengthened in 2015, with unrestricted net assets, or reserves, increasing from \$144.7 million at December 31, 2014 to \$163.3 million at year-end 2015.

Dr. Omberg presented information on the 2017 fully escalated dues calculation and a comparison of ACS dues amounts with those of other scientific societies; ACS falls in the middle in terms of cost and likely will remain there in 2017. The committee voted to recommend to Council that member dues for 2017 be set at the fully escalated rate.

5. VOTED, on the recommendation of the Committee on Budget and Finance, with the concurrence of the Council Policy Committee, to set member dues for 2017 at the fully escalated rate of \$166.

Education(SOCED)

Diane Krone, committee chair, reported that SOCED has formed a working group to review and propose changes to the ACS Science Education Policy Statement, which expires at the end of the year. The committee also identified members to work with the Committee on International Activities in revising the ACS Visa Policy Statement.

SOCED approved a motion to seek external funding for a workshop on General Chemistry Performance Expectations, part of a multi-year effort to specify a process for the creation of performance expectations in general chemistry.

The American Association of Chemistry Teachers (AACT) now has more than 3,300 members, 88% of whom are K-12 teachers. The AACT online resource library now contains more than 330 lesson plans, laboratory experiments, activities, and demonstrations.

The committee encouraged Councilors to view ChemIDP (<https://chemidp.acs.org>) – a new online Individual Development Plan tool designed to assist graduate students and postdoctoral scholars with career planning and preparation.

Science(ComSci)

Mark C. Cesa, committee chair, reported that ComSci remains focused on three areas: increasing understanding of emerging frontiers in science, developing public policies to advance science in society, and nominating eminent chemical scientists and engineers for prestigious external awards.

The committee organized a forum in San Diego where experts from academic, industrial and government laboratories shared their perspectives on key challenges in the computational design of advanced materials. This was the third forum on this topic, all of which generated content that we plan to distribute widely. The second forum was held last August in Boston, where ComSci organized a successful roundtable with division, journal and industry leaders. Several valuable recommendations were generated. ComSci recently prepared a paper based on the first forum last March, which focused on advanced materials for solar energy and will be published soon.

ComSci is also working to help inform policymakers and ACS membership on strengthening forensic science. The committee led an effort to develop the Society's first policy statement on this issue in 2013, and will enhance and update the statement this summer for Board consideration. In addition, there will be a symposium on this issue at the national meeting in August in Philadelphia.

SpecialDiscussionItem

The Council engaged in a special discussion to gather input for the ACS Presidential Task Force on the U.S. Employment of Chemists. In her introductory remarks, Dr. Nelson stated that she assembled a task force on employment in the chemical sciences last year. The task force is examining and considering all known influences that can impact employment in the chemical sciences. One goal is to hear opinions from everyone, and the task force seeks the input of all Councilors.

The task force was charged to address the following:

- 1) Factors that determine balance between supply and demand.
- 2) Employment situation for technicians.
- 3) Benefits and handicaps of possible certification, licensing, and registration of chemical professionals.
- 4) Do we prepare our graduates for the jobs offered by industry?
- 5) What are the opportunities to help young graduates and mid-career chemical professionals find employment?
- 6) Are minorities adequately represented in the chemical workforce? What is needed to get them in the pipeline?
- 7) Global factors influencing employment situation for US chemical professionals: Effect of outsourcing and immigration.

She invited Councilors to share their thoughts on the specific areas listed, or to add to the list. Following the presentation, nearly 30 Councilors offered comments or made suggestions. Dr. Nelson concluded the discussion by thanking the Council and said a summary would be sent to the task force.

ReportsofStandingCommittees

LocalSectionActivities(LSAC)

Martin D. Rudd, committee chair, recognized the following local sections for their anniversaries in 2016: 25th – Orlando and South Florida; 50th – South Central Missouri; 75th – Binghamton, San Diego, and Southeastern Pennsylvania; and, for their 125th – the New York and Rhode Island local sections.

Local Section annual reports for 2015 have been completed by 148 of 185 sections. Local sections reported a total of 1,511 events that were completed in 2015, as well as 159 ChemLuminary nominations.

LSAC awarded 19 Innovative Program Grants totaling \$39,930, and continues to offer grants for local sections to host a Leadership Development System course or Strategic Planning Retreat in the fall of 2016 or spring 2017.

The committee voted to approve a petition to amend the ACS Bylaws related to the rights of affiliates.

Councilors were encouraged to celebrate this year's Chemists Celebrate Earth Day theme: "The Great Indoors: Your Home's Ecosystem" on April 22.

MembershipAffairs(MAC)

James M. Landis, committee chair, reported that MAC continues to focus on new efforts to recruit and retain members. As of December 31, the ACS membership was nearly 157,000, which is 0.96 % less than on the same date in 2014. The number of new members who joined in 2015 is 25,000. The Society's overall retention rate is 84%. The number of international members has increased to 26,022. That number is 965 higher than in December of 2014. The international growth rate is 3.85%.

Two of the early market data collection tests to increase member recruitment and retention are due to expire in 2016. MAC has submitted a petition for consideration at this meeting to permanently extend the unemployed members' dues waiver benefit period from two years to three years at the Philadelphia meeting, the committee will request that Council authorize the three-year extension of this test. The committee also favors the continuation of commission payments to ACS International Chemical Sciences Chapters for the recruitment of new members.

Based on successful testing in India, MAC has approved testing to collect data on the adjustment of ACS dues prices in other countries where ACS has International Chapters. The committee also approved a test to allow the Marketing Staff to discount dues by a percentage or dollar amount based on industry best practices as part of promotional offers for annual or multiyear dues packages.

EconomicandProfessionalAffairs(CEPA)

William (Rick) Ewing, committee chair, reported that data from the 2015 ACS ChemCensus reveal that domestic unemployment among ACS member chemists edged slightly upwards in the last year from 2.9% to 3.1%. This is below the U.S. unemployment rate of 5.5%. As reported by the ACS new graduate survey report which is still being finalized, more concerning is the continued high unemployment rate for new graduates, with an uptick to 13%.

The ACS Career Fair and the Virtual Career Fair at this meeting had 739 job seekers, 30 employers, and 106 positions; with 217 mock interviews and 360 resume reviews.

CEPA has revised *The Chemical Professional's Code of Conduct*, as found in the Council agenda. Councilors were asked to submit comments and revisions to careers@acs.org before April 30 in preparation for possible action in Philadelphia.

Dr. Ewing then drew Council's attention to the *Academic Professional Guidelines* in the agenda book, which was presented for consideration in Boston and is ready for action at this meeting. He reported that a friendly amendment to the section regarding physical facilities has been offered by CPC.

6. VOTED, on the recommendation of the Committee on Economic and Professional Affairs, to amend Section B., 6. of the *Academic and Professional Guidelines* as follows:

B. Responsibilities to Students

6. Physical Facilities. The department should ~~maintain~~ workwiththeadministratioentoensuremaintenanceof its building(s) and equipment holdings in the highest quality condition possible. Building use policies and equipment contained therein should be updated regularly.

7. VOTED, on the recommendation of the Committee on Economic and Professional Affairs, with the concurrence of the Council Policy Committee and subject to approval by the Board of Directors, to approve the amended document, *Academic and Professional Guidelines*.

MeetingsandExpositions(M&E)

John Pochan, committee chair, reported that more than 12,000 papers were accepted for the 251st National Meeting in San Diego. The total attendance to date for this meeting is 15,791. The Exposition had 416 booths with 273 exhibiting companies.

ACS continues to lead the meeting industry in green chemistry efforts and has been named as 1 of 5 finalists for the 2016 UFI Sustainable Development Award, which is the premier entity representing the exhibition industry.

As part of M&E's comprehensive sustainability plan, print copies of the program book for San Diego were significantly reduced and a limited number were available for sale. Statistics show that 1,845 program books were sold, as most members are choosing to use the online program or the download the Mobile APP, which has received 8,817 transfers for this nation meeting.

In compliance with the National Meeting Long Range Financial Plan and the recommendations of the 2015 Task Force on Implementing National Meeting Financial Targets, M&E will recommend to the Board that the Early Member Registration Fee for the 2017 national meetings be \$440.

DivisionalActivities(DAC)

Rodney M. Bennett, committee chair, reported that DAC will hold a strategic planning retreat in June to plot a course on how best to serve divisions and the Society over the next 3-5 years.

The committee has established two top programmatic priorities for 2016. The first one focuses on division membership chairs, and providing them with more tools, training, and guidance on how to recruit and retain division members. A second DAC priority centers on developing and launching a pilot program with several divisions to help them integrate an ongoing business planning component into their operations.

DAC voted to approve a petition to amend the Bylaws to permit greater flexibility with respect to rights granted to division and local section affiliates.

DAC voted to fund 12 Innovative Project Grants (IPG) totaling \$68,980. The committee will consider another set of IPG proposals during the Philadelphia meeting.

ConstitutionandBylaws(C&B)

James C. Carver, committee chair, reported that last year C&B certified a record 29 bylaws. Since the beginning of this year, C&B has certified five bylaws. Since the 2014 fall meeting in Boston, C&B has reviewed bylaws for 13 local sections and one section group.

Councilors were reminded that certified bylaws and status reports are posted for referral on ACS's website at www.acs.org/bulletin5.

New petitions to amend the Constitution or Bylaws must be received by the Executive Director no later than May 4 to be included in the Council agenda for consideration at the fall 2016 meeting in Philadelphia. Petitioners are encouraged to send any draft petition to C&B at least a month before the deadline for initial input.

ReportsofOtherandJointBoard-CouncilCommittees

ChemistryandPublicAffairs(CCPA)

Susan B. Butts, committee chair, reported that CCPA works to motivate and inspire ACS member participation in government affairs at both the federal and state levels, encouraging members to visit policymakers in Washington and their home districts, and to contact their legislators through the Act4Chemistry Legislative Action Network.

She shared one example of the power of ACS member engagement: working through the ACS Office of Public Affairs with Rep. John Moolenaar (R-Midland) to create the Congressional Chemistry Caucus. The mission of the caucus is to educate Members of Congress, their staff, and the public on the benefits of chemistry in today's society and its economic impact on our country. The caucus will be bipartisan and, although the focus right now is on getting it firmly established in the House, eventually it will be bicameral.

Congressman Moolenaar, a Republican, is partnering with Congressman Daniel Lipinski, a Democrat from Illinois, as the Caucus founders. The kick-off event in late April will be hosted by ACS, the American Chemistry Council (ACC), and the National Association of Chemical Distributors (NACD). Confirmed speakers include Congressmen Moolenaar and Lipinski, as well as Thomas Connelly, Cal Dooley, who heads ACC, and Eric Byer, CEO of the NACD.

CCPA will work with OPA to recruit ACS members in key congressional districts to ask their House members to join the caucus. The committee urges all ACS Councilors to encourage their members of Congress to join.

ChemistswithDisabilities(CWD)

John J. Johnston, committee chair, reported that CWD is working with other ACS entities to ensure that all individuals have opportunities to advance the chemical sciences by drawing on their full range of talents. The ACS Examinations Institute and CWD are working together to make ACS Standard Exams, Practice Tests and Study Guides available to blind students. ACS is creating a lending library for braille versions of ACS Standard Exams (overcoming the hurdle of the increased costs that university chemistry departments might incur to create braille tests). The ACS Department of Higher Education reached out to CWD to develop guidance for creating classroom environments in which all students are encouraged to contribute.

To increase awareness and receptiveness of scientists with disabilities, CWD is continuing to develop posters of famous scientists with disabilities. At the request of teachers, these posters have been made into bookmarks and posters suitable for classrooms.

Nomenclature, Terminology and Symbols (NTS)

Michael D. Mosher, committee chair, reported that NTS worked with the Committee on Technician Affairs (CTA) on the assessment and recommendations of the use of the term chemical technician. The term is often used to describe a position of employment in US industry but there is little uniformity in its use. The committee continues to collaborate with CTA in an attempt to standardize the use of the term.

NTS members have also been involved in providing feedback and comment on the redefinition of the SI base units. This has resulted in publications in newsletters and journals, as well as discussions and presentations within various symposia. Other work has been centered on the use of International Chemical Identifier codes and a chemical ontology.

The committee has evaluated and commented on the recent provisional recommendation from the IUPAC Division II, entitled "How to Name New Elements." The recommendation to include the endings "-ium" for new elements up to and including element-116, "-ine" for element-117, and "-on" for element-118 was met with approval. Pursuant to the discovery of the last four elements to complete the unfinished period in the Periodic Table, NTS has hosted a booth in this meeting's Exposition. The intent of the booth was to engage the membership in the activities of the committee and to generate and foster excitement about the discovery of new elements. NTS is planning programming for the Philadelphia meeting in the fall to provide comment on the development of preferred IUPAC names, which will likely be proposed by Division VIII. Such programming will include talks on nomenclature from the past, present, and future.

Professional Training (CPT)

Thomas J. Wenzel, committee chair, reported that the committee evaluated 46 periodic reports from currently approved programs and held conferences with nine departments to begin the process of applying for ACS approval. CPT also evaluated site visit reports from six programs seeking approval, one update on an application, and two reports from approved programs on probation. CPT approved four new programs and withdrew approval of one program. There are currently 681 colleges and universities offering ACS-approved bachelor's degree programs in chemistry.

The committee approved a new supplement that provides guidance on how departments might satisfy the new requirement for coverage of two of the following systems: synthetic polymers, biological macromolecules, supramolecular aggregates, and meso- or nanoscale materials. CPT has organized a symposium on this requirement that will be held at the Biennial Conference on Chemical Education this summer.

A short survey on international experiences taken by undergraduate chemistry majors was developed and approved for inclusion in the 2015-16 annual report. The committee also approved a new self-study questionnaire that is used by programs applying for initial ACS approval.

At this meeting, CPT met with the Visiting Associates, volunteers who make site visits to programs that are seeking initial approval by ACS, and also with representatives from 41 (20%) of PhD-granting institutions.

Technician Affairs (CTA)

Kara M. Allen, committee chair, reported that CTA has worked to become more closely aligned with industry programs. At this meeting, the committee co-sponsored a symposium with the Division of Industrial and Engineering Chemistry (I&EC), SOCED, and the Immediate Past President, entitled "New Reality of the Chemical Enterprise: Traditional & Nontraditional Career Paths." CTA members were invited to attend the Corporation Associates luncheon at this meeting, providing an opportunity for the two groups to network.

CTA honored the 27th recipient of the National Chemical Technician Award at a luncheon at this meeting. This award was established to recognize the outstanding career achievements of exceptional technicians, who have significantly contributed to the field through their technical achievements, leadership and mentoring, publications, presentations, patents, quality and safety practices, and professional and community activities.

CTA partnered with the Younger Chemists' Committee to provide a travel award to a younger chemical technician interested in attending the ACS Leadership Institute.

WomenChemists(WCC)

Amber F. Charlebois, committee chair, reported that at this national meeting WCC recognized the ten recipients of the 5th annual WCC Rising Star Award at a networking event following a day-long symposium on Monday. Also at this meeting, ten women received WCC/Eli Lilly Travel Awards. The committee congratulated Dr. Annie Kersting, the 2016 recipient of the Francis P. Garvan-John M. Olin Medal and keynote speaker at the WCC Luncheon. In addition, the committee honored Carol A. Fierke, the recipient of the 2016 ACS Award for Encouraging Women into Careers in the Chemical Sciences.

Dr. Charlebois stated that WCC is committed to encouraging conversations around the difficult topic of awards and recognition for women. She quoted from a recent ACS Comment in Chemical & Engineering News: "From 2012-2016, only 13% of the nominees and only 16% of the recipients for ACS national awards were women." The data indicate too few women are being nominated, and she announced that WCC has created a task force to help increase the number of women recipients of technical ACS national awards. Councilors were urged to consider nominating an extraordinary woman chemist this November for an ACS award.

NewBusiness

Resolution

The Council adopted the following resolution:

8. BE IT RESOLVED That the Council of the American Chemical Society express to the officers and members of the San Diego Local Section, host Section for the 251st National Meeting, the sincere appreciation of the Council and of the entire Society for the cordial hospitality extended to all registrants at this meeting, and that the Council convey special thanks to the divisional program chairs and symposium organizers responsible for the outstanding technical sessions, as well as headquarters staff, for the planning and execution that have assured the success of the 251st National Meeting.

Following the resolution, comments were received from Councilors on several topics, including comments on the purpose of committee reports, discussion of larger issues, the effective operation of the Council meeting itself, and an expression of gratitude for the work of retiring ACS staff member Cheryl Brown.

There being no further business, the meeting adjourned at 11:35 a.m.

Flint H. Lewis
Secretary